FIG. 1

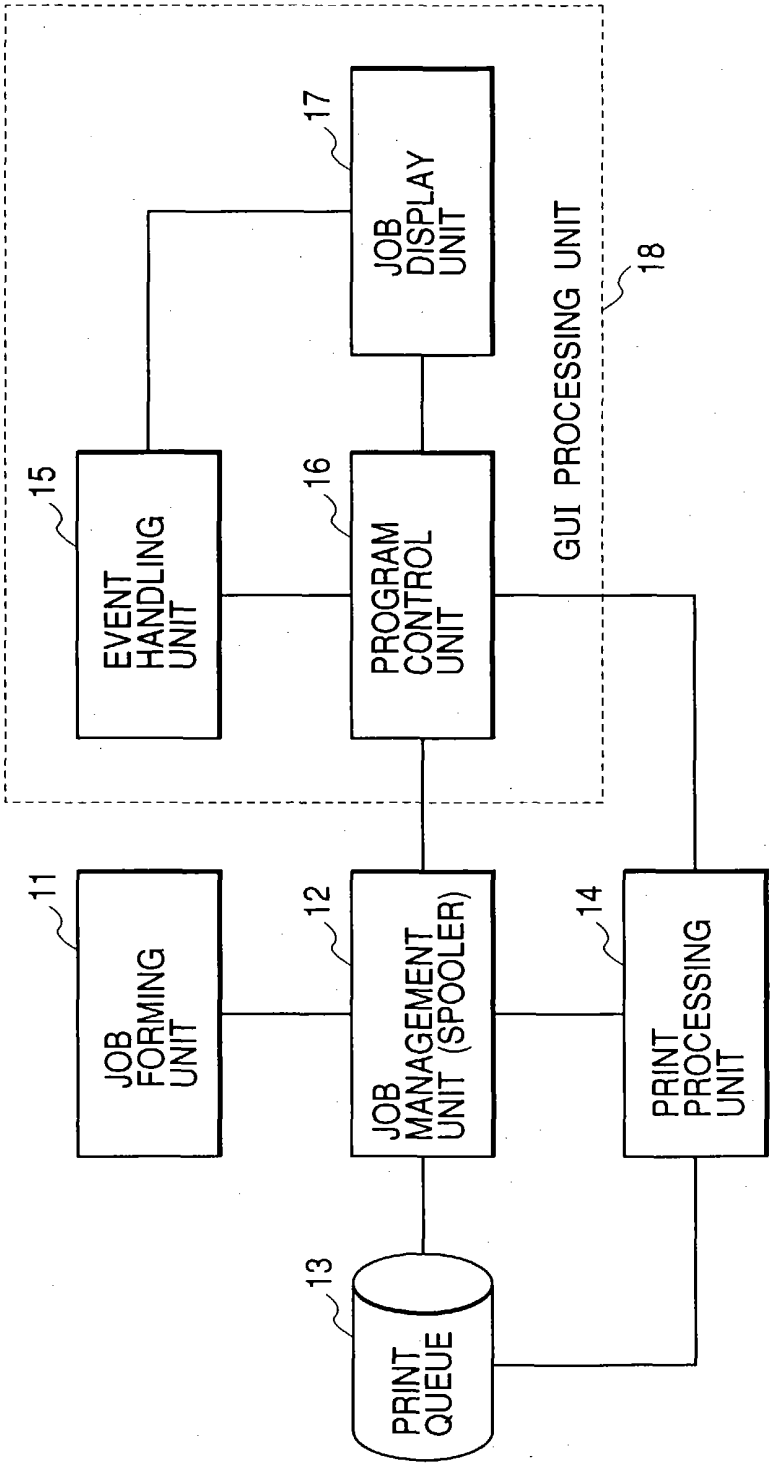

GUI PROCESSING UNIT
18
JOB DISPLAY UNIT
17
EVENT HANDLING UNIT
15
PROGRAM CONTROL UNIT
16
JOB FORMING UNIT
11
JOB MANAGEMENT UNIT (SPOOLER)
12
PRINT PROCESSING UNIT
14
PRINT QUEUE
13

FIG. 2

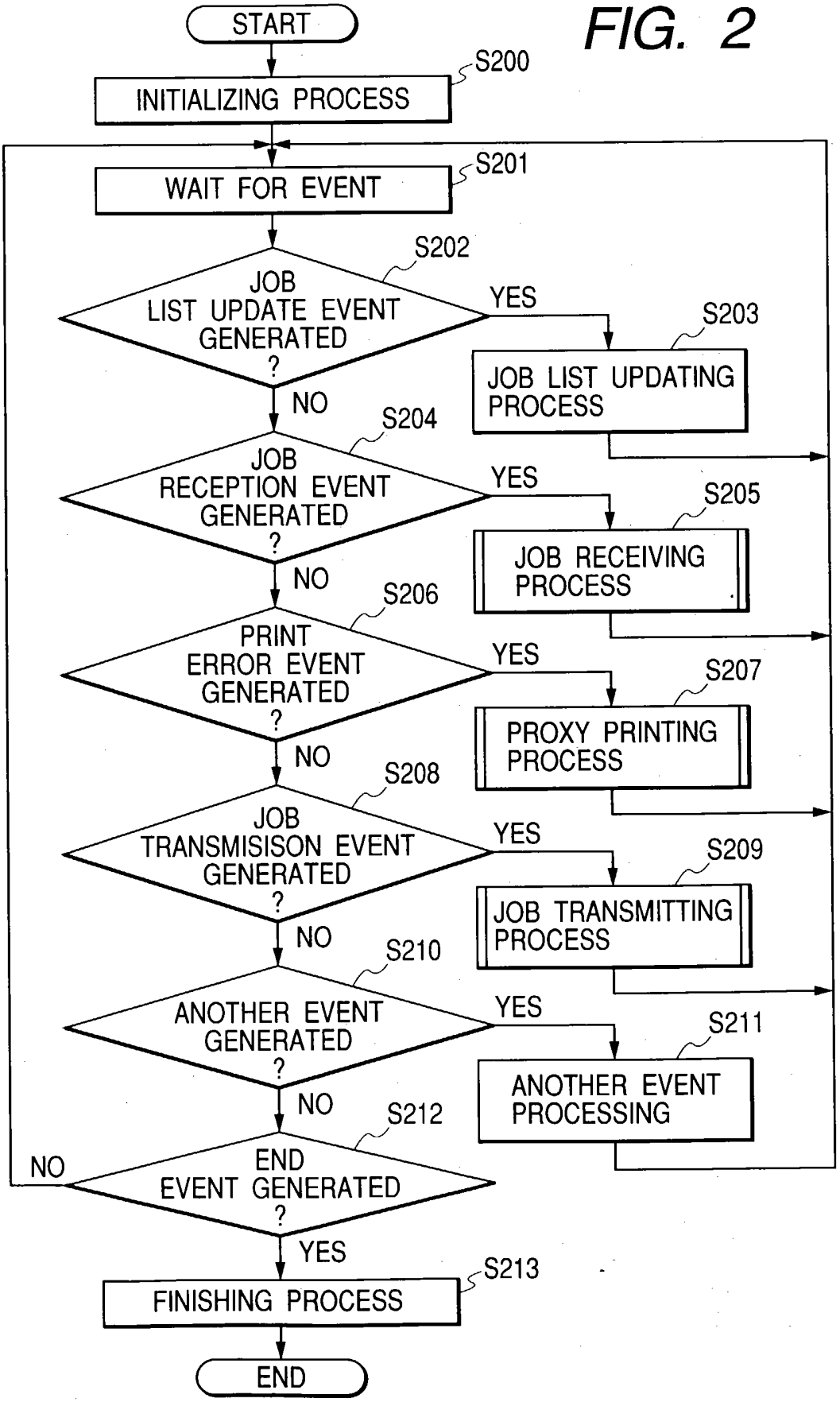

START
S200
INITIALIZING PROCESS
S201
WAIT FOR EVENT
S202
JOB LIST UPDATE EVENT GENERATED ?
YES
S203
JOB LIST UPDATING PROCESS
NO
S204
JOB RECEPTION EVENT GENERATED ?
YES
S205
JOB RECEIVING PROCESS
NO
S206
PRINT ERROR EVENT GENERATED ?
YES
S207
PROXY PRINTING PROCESS
NO
S208
JOB TRANSMISISON EVENT GENERATED ?
YES
S209
JOB TRANSMITTING PROCESS
NO
S210
ANOTHER EVENT GENERATED ?
YES
S211
ANOTHER EVENT PROCESSING
NO
S212
END EVENT GENERATED ?
NO
YES
S213
FINISHING PROCESS
END

FIG. 3

JOB ID	PRIORITY	RECEPTION TIME	STATUS	USER	MACHINE NAME	DOCUMENT NAME	ORIGINAL PRINTER
200	1	09:55:40	PRINTING	KUROTSU	PC2	DOCUMENT.doc	PRINTER A
201	1	10:20:00	TRANSMITTING	KUROTSU	PC2	MINUTE BOOK 1.doc	PRINTER A
202	1	10:23:35	TRANSMISSION WAITING	KUROTSU	PC2	MEMO.txt	PRINTER A
203	2	10:21:33	TRANSMISSION WAITING	KUROTSU	PC1	TEST PRINT 2.doc	PRINTER B

FIG. 4

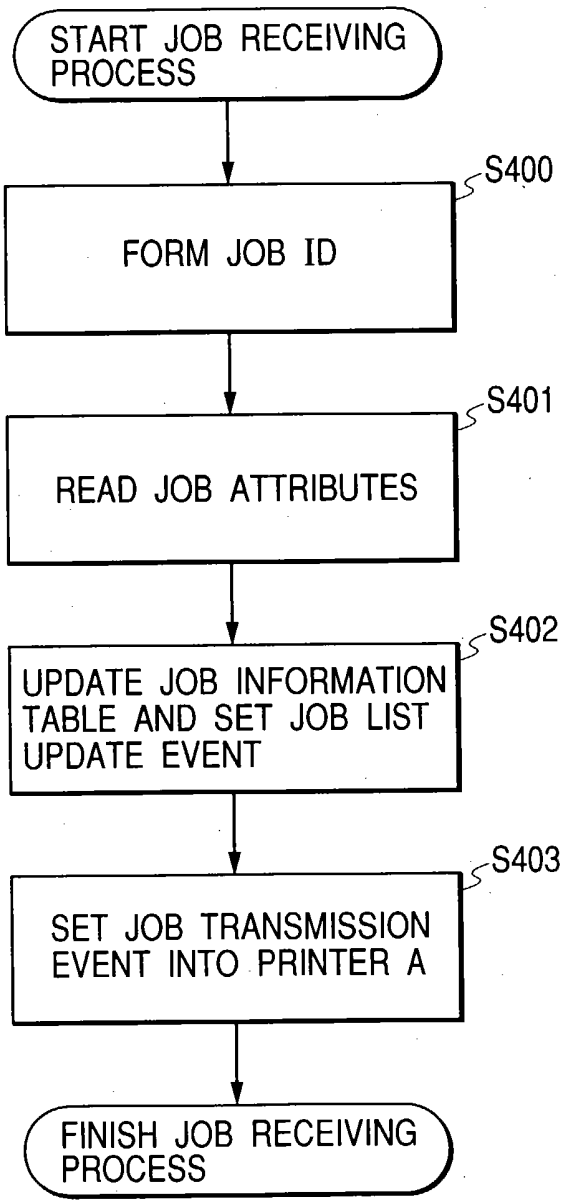

START JOB RECEIVING PROCESS
S400
FORM JOB ID
S401
READ JOB ATTRIBUTES
S402
UPDATE JOB INFORMATION TABLE AND SET JOB LIST UPDATE EVENT
S403
SET JOB TRANSMISSION EVENT INTO PRINTER A
FINISH JOB RECEIVING PROCESS

FIG. 5

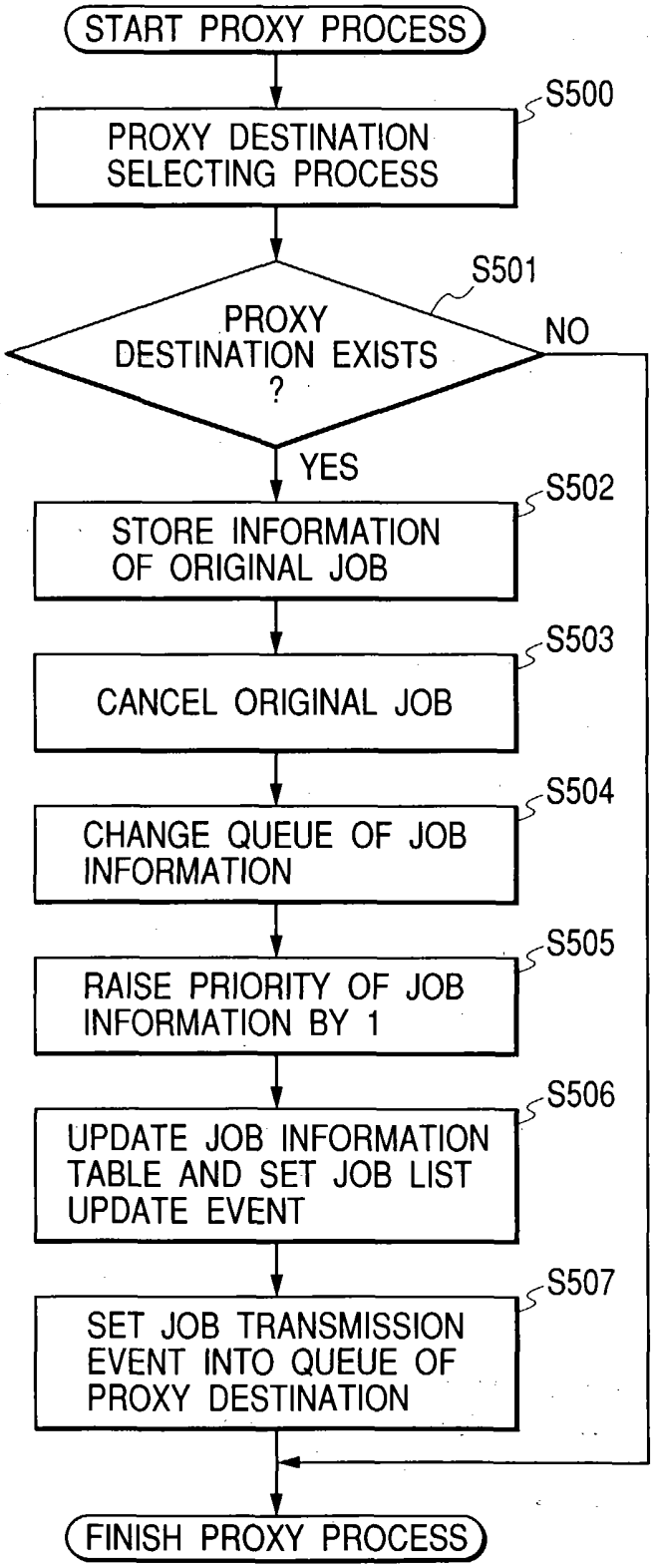

START PROXY PROCESS
S500
PROXY DESTINATION SELECTING PROCESS
S501
PROXY DESTINATION EXISTS ?
NO
YES
S502
STORE INFORMATION OF ORIGINAL JOB
S503
CANCEL ORIGINAL JOB
S504
CHANGE QUEUE OF JOB INFORMATION
S505
RAISE PRIORITY OF JOB INFORMATION BY 1
S506
UPDATE JOB INFORMATION TABLE AND SET JOB LIST UPDATE EVENT
S507
SET JOB TRANSMISSION EVENT INTO QUEUE OF PROXY DESTINATION
FINISH PROXY PROCESS

FIG. 6

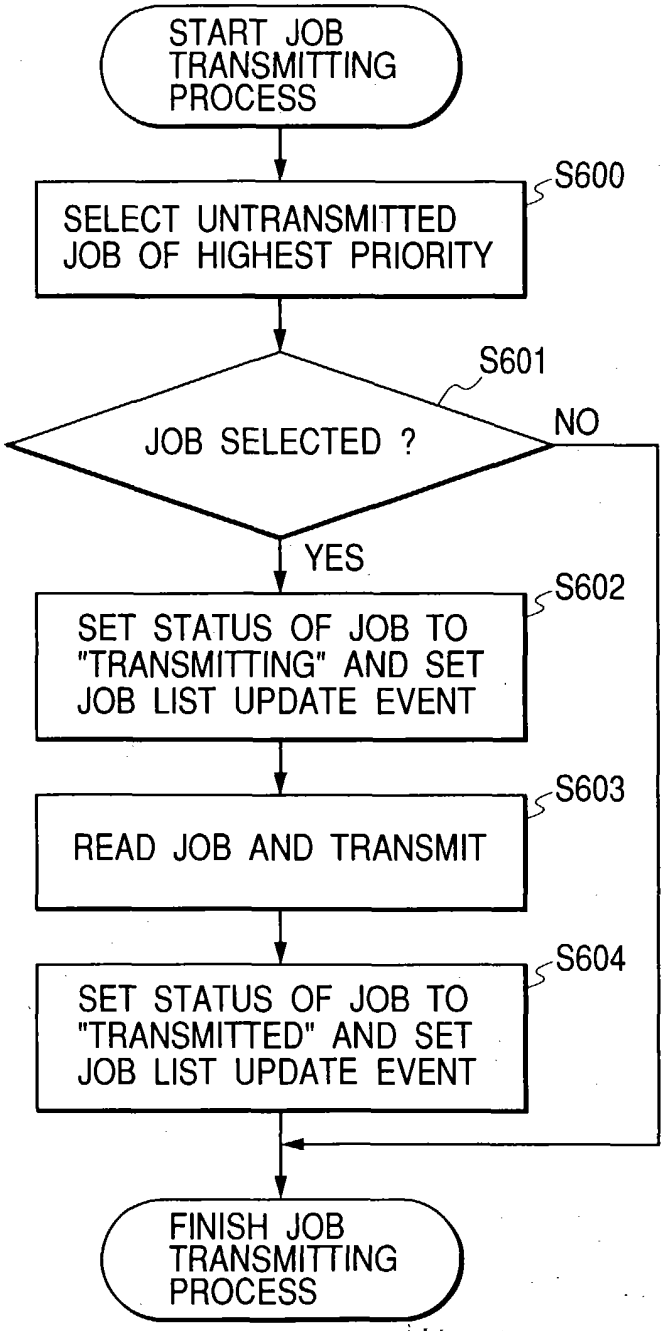

START JOB TRANSMITTING PROCESS
S600
SELECT UNTRANSMITTED JOB OF HIGHEST PRIORITY
S601
JOB SELECTED ?
NO
YES
S602
SET STATUS OF JOB TO "TRANSMITTING" AND SET JOB LIST UPDATE EVENT
S603
READ JOB AND TRANSMIT
S604
SET STATUS OF JOB TO "TRANSMITTED" AND SET JOB LIST UPDATE EVENT
FINISH JOB TRANSMITTING PROCESS

FIG. 7

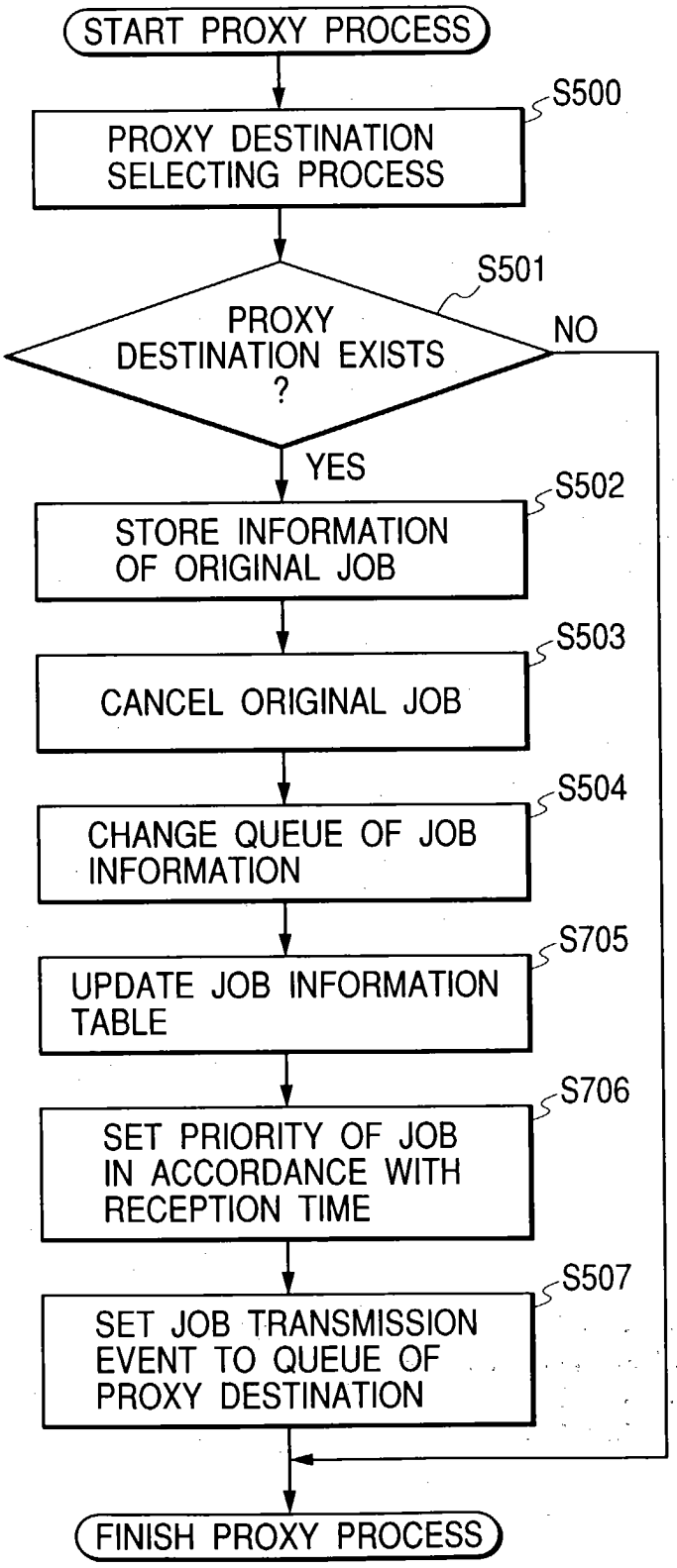

START PROXY PROCESS
S500
PROXY DESTINATION SELECTING PROCESS
S501
PROXY DESTINATION EXISTS ?
NO
YES
S502
STORE INFORMATION OF ORIGINAL JOB
S503
CANCEL ORIGINAL JOB
S504
CHANGE QUEUE OF JOB INFORMATION
S705
UPDATE JOB INFORMATION TABLE
S706
SET PRIORITY OF JOB IN ACCORDANCE WITH RECEPTION TIME
S507
SET JOB TRANSMISSION EVENT TO QUEUE OF PROXY DESTINATION
FINISH PROXY PROCESS

FIG. 8

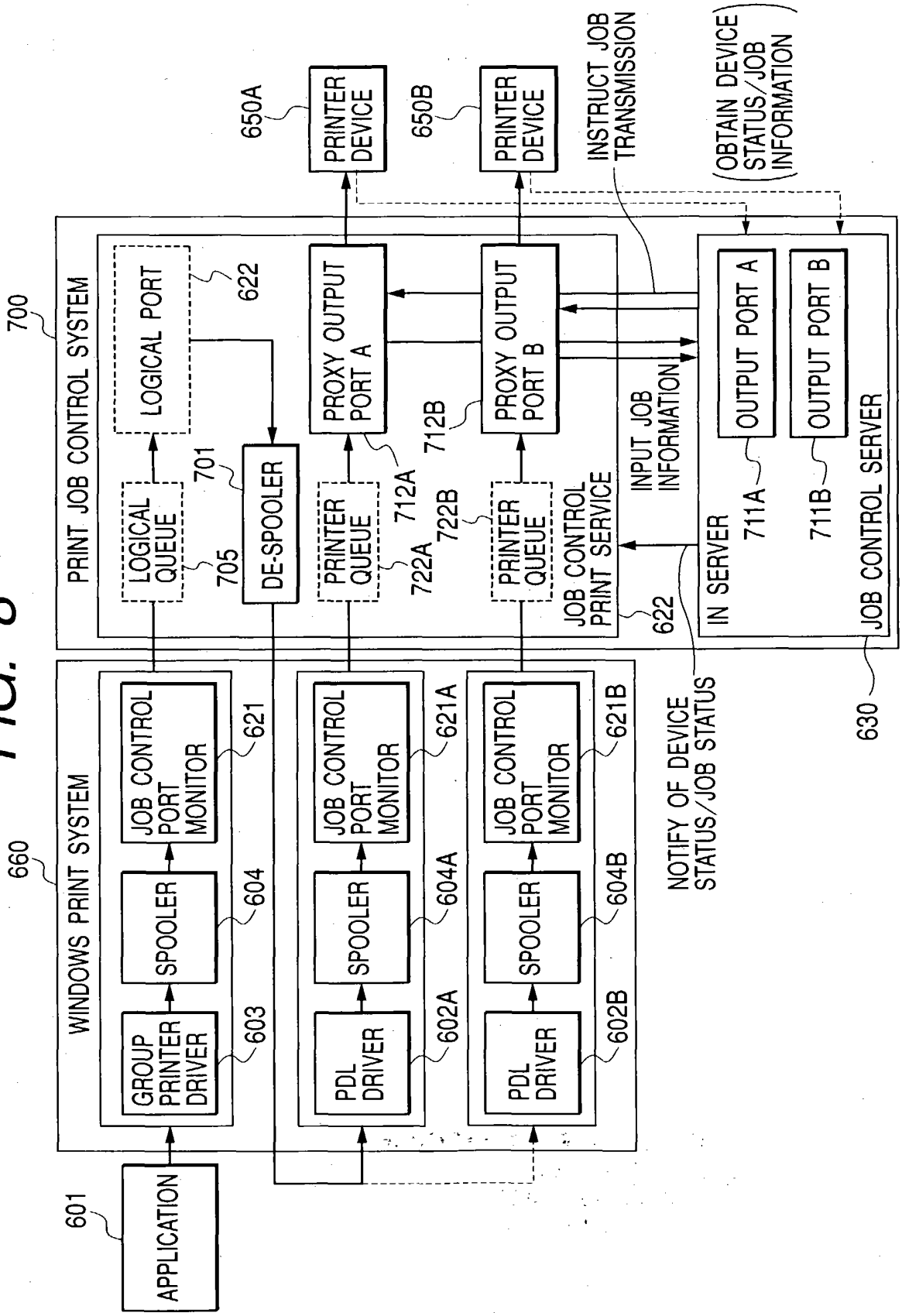
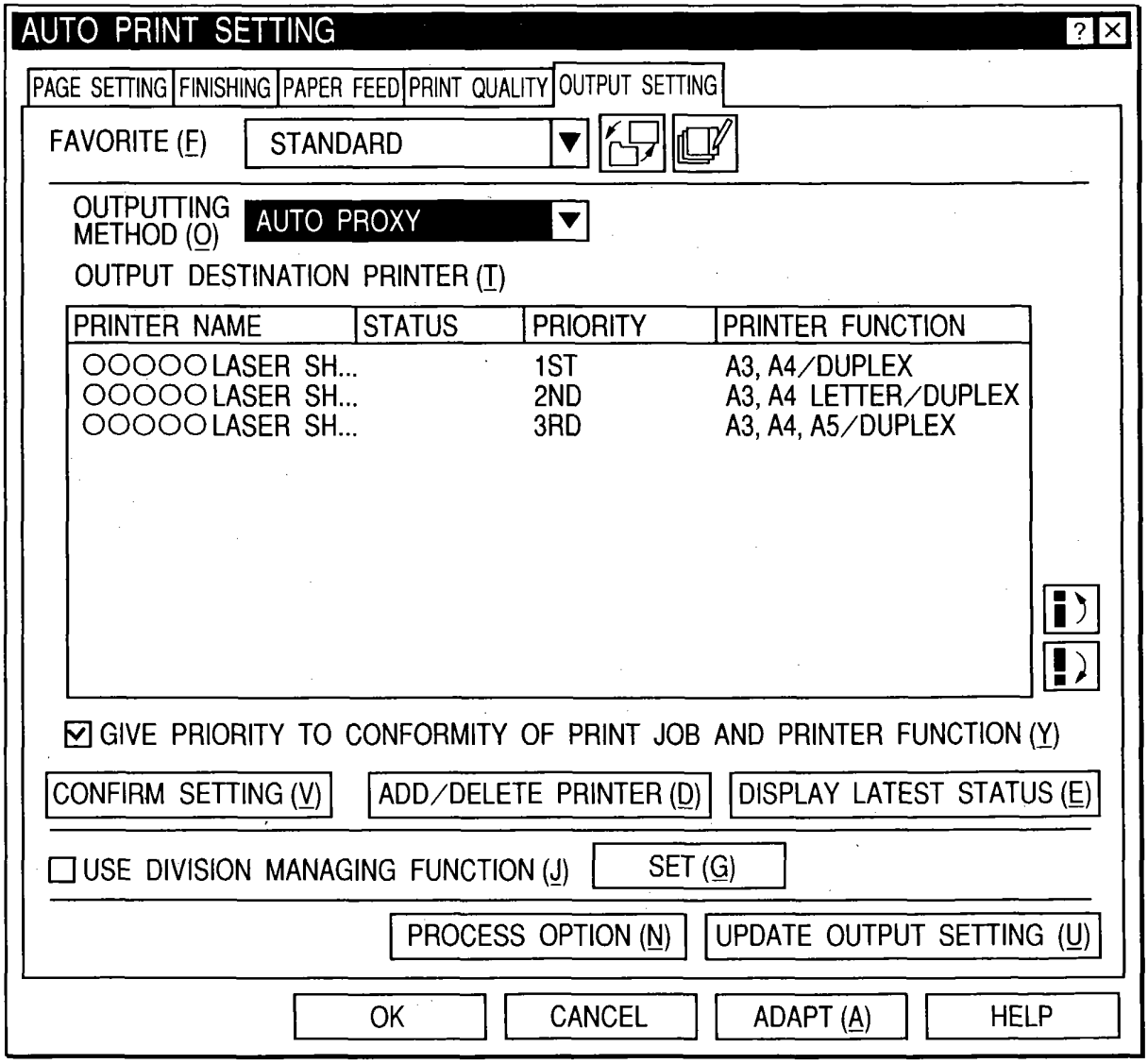

APPLICATION
601
WINDOWS PRINT SYSTEM
660
GROUP PRINTER DRIVER
603
SPOOLER
604
JOB CONTROL PORT MONITOR
621
PDL DRIVER
602A
604A
621A
602B
604B
621B
PRINT JOB CONTROL SYSTEM
700
LOGICAL QUEUE
705
LOGICAL PORT
622
DE-SPOOLER
701
PRINTER QUEUE
722A
PROXY OUTPUT PORT A
712A
722B
PROXY OUTPUT PORT B
712B
JOB CONTROL PRINT SERVICE
622
INPUT JOB INFORMATION
IN SERVER
711A
OUTPUT PORT A
711B
OUTPUT PORT B
JOB CONTROL SERVER
630
650A
PRINTER DEVICE
650B
PRINTER DEVICE
INSTRUCT JOB TRANSMISSION
(OBTAIN DEVICE STATUS/JOB INFORMATION)
NOTIFY OF DEVICE STATUS/JOB STATUS

FIG. 9


AUTO PRINT SETTING
PAGE SETTING
FINISHING
PAPER FEED
PRINT QUALITY
OUTPUT SETTING
FAVORITE (F)
STANDARD
OUTPUTTING METHOD (O)
AUTO PROXY
OUTPUT DESTINATION PRINTER (T)
PRINTER NAME
STATUS
PRIORITY
PRINTER FUNCTION
OOOOO LASER SH...
1ST
A3, A4/DUPLEX
OOOOO LASER SH...
2ND
A3, A4 LETTER/DUPLEX
OOOOO LASER SH...
3RD
A3, A4, A5/DUPLEX
GIVE PRIORITY TO CONFORMITY OF PRINT JOB AND PRINTER FUNCTION (Y)
CONFIRM SETTING (V)
ADD/DELETE PRINTER (D)
DISPLAY LATEST STATUS (E)
USE DIVISION MANAGING FUNCTION (J)
SET (G)
PROCESS OPTION (N)
UPDATE OUTPUT SETTING (U)
OK
CANCEL
ADAPT (A)
HELP

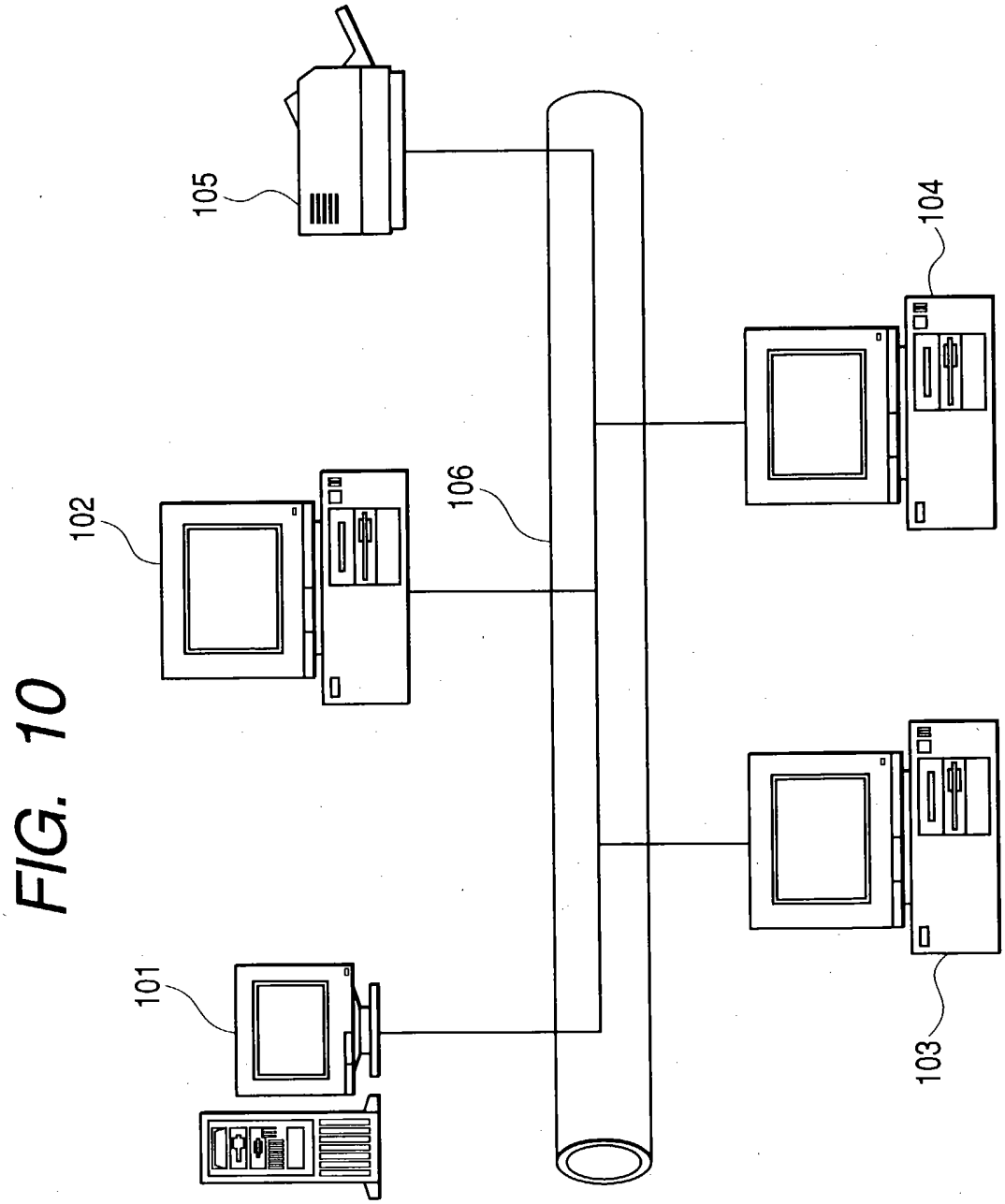



FIG. 10